

Math 70 Sequence of Topics

REVIEW

- 1.1, 1.2, 1.3 Review – Expressions and Translations
- 1.4, 1.5, 1.6, 1.7 Review – Like Terms, Operations on Signed Numbers, Absolute Value, Opposites, Inverses
- 1.8, 2.1, 2.2 Review – Exponential Notation and Order of Operations, Principles for Solving Basic Linear Equations

EQUATIONS, INEQUALITIES AND PROBLEM SOLVING

- 2.3 Formulas and Literal Equations
- 2.4 Applications with Percent
- 2.5 Problem Solving
- 2.6 Solving Inequalities
- 2.7 Solving Applications with Inequalities

INTRODUCTION TO GRAPHING

- 3.1&3.2 Reading Graphs, Plotting Points, Graphing Linear Equations
- 3.3 Graphing and Intercepts
- 3.4&3.5 Rates and Slope
- 3.6 Slope-Intercept Form
- 3.7 Point-Slope Form and Equations of Lines

SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES AND PROBLEM SOLVING

- 8.1 Systems of Equations in Two Variables – Graphing, Solutions
- 8.2 Solving by SUBSTITUTION OR ELIMINATION
- 8.3 Applications of Linear Systems
- 9.4 Inequalities in Two Variables

POLYNOMIALS

- 4.1&4.2 Exponents and Their Properties
- 4.3&4.4 Polynomials – Terminology, Addition and Subtraction
- 4.5&4.6 Multiplication of Polynomials and Special Products
- 4.7 Polynomials in Several Variables
- 4.8 Division of Polynomials

FACTORING, SOLVING QUADRATIC EQUATIONS BY FACTORING, APPLICATIONS

- 5.1 Introduction to Factoring
- 5.2 Factoring Trinomials with Leading Coefficient of 1
- 5.3 Factoring Trinomials with Leading Coefficient not 1
- 5.4&5.5 Special Patterns (ALL)
- 5.6 General Strategy for Factoring
- 5.7 Solving Quadratic Equations by Factoring
- 5.8 Solving Applications Involving Quadratic Equations

FUNCTIONS

- 7.1 Introduction to Functions

RATIONAL EXPRESSIONS AND EQUATIONS

- 6.1&6.2 Rational Expressions – Introduction and Multiplication and Division
- 6.3 Addition, Subtraction and LCDs of Rational Expressions
- 6.4 Addition and Subtraction of Rational Expressions with Unlike Denominators
- 6.5 Complex Rational Expressions
- 6.6 Rational Equations
- 6.7 Applications Using Rational Equations and Proportions

EXPONENTS AND RADICALS

- 10.1 Radical Expressions and Functions
- 10.2 Rational Numbers as Exponents
- 10.3&10.4 Multiplying and Dividing Rational Expressions
- 10.5 Expressions Containing Several Radical Terms
- 10.6 Solving Radical Equations
- 10.7&10.8 Distance Formula, Midpoint Formula, Special Triangles and Complex Numbers

QUADRATIC FUNCTIONS AND EQUATIONS

- 11.1 Quadratic Equations – Square Root Property and Completing the Square
- 11.2&11.3 Quadratic Formula and Solutions of Quadratic Equations
- 11.4 Applications Involving Quadratic Equations
- 11.6 Quadratic Functions and Their Graphs
- 11.8* Problem Solving and Quadratic Functions